

Destination Chemistry

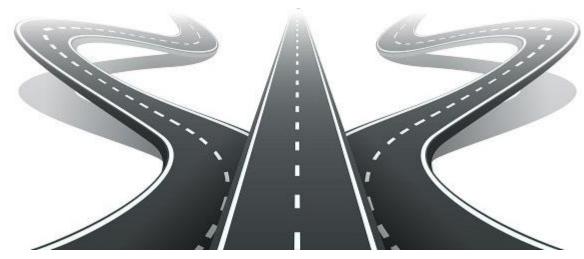
Dr Robert Johnson



Chemistry

Medicinal Chemistry & Chemical Biology

Chemistry with Sustainable & Environmental Chemistry



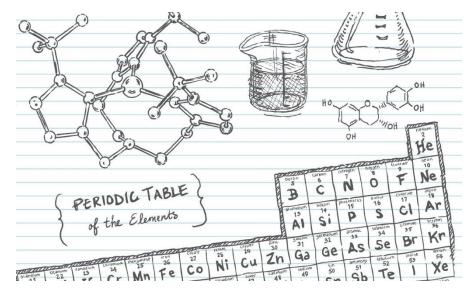
Stage 3 Advisory Session

Chemistry

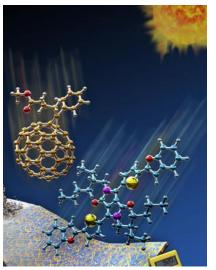


Chemists

- Investigate the natural world,
 e.g. they study the structures
 and properties of naturally
 occurring substances in the
 environment and in living things.
- Invent new substances to solve problems, e.g. they design and synthesise new medicines and new materials



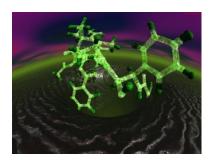




It's easy to overlook how reliant we are on the products made by chemists!

Medicinal Chemistry & Chemical Biology







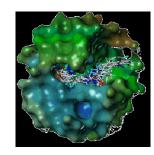












- a) Provides an understanding of **chemical basis of biology** and can be described as the "Chemistry of Life and Medicine"
- b) Our **chemical biologists and medicinal chemists** will also develop the next generation of medicines and vaccines.

Chemistry with Environmental & Sustainable Chemistry





Environmental & Sustainable chemists:

- a) measure and minimise the detrimental effects of industrial processes on the environment
- b) use **sustainable** resources to drive our transport, energy and production sectors without decreasing our living standards.

Chemistry in Year 3



Autumn:

CHEM30200 Carbonyl Chemistry & Synthesis

CHEM30210 Structural Determination & Heterocyclics

> CHEM30220 Mechanism and Stereochemistry

CHEM30060 Quantum Mechanics

+

CHEM30110 Instrumental Analysis

OR

CHEM30280 Medicinal Chemistry

XXXX (Option) e.g., PHAR30010, MICR30030, CHEM30110

Spring:

CHEM30320 Chemical Thermodynamics

CHEM30310 Soft Matter & Interfacial Chemistry

> CHEM30320 Symmetry & Computational

CHEM30320 Organometallic & Solid State

CHEM30360
Advanced Transition Metal
Chemistry

CHEM30260
Chemical Biology of
Natural Products

CHEM30190
Chemical Biology of
Macromolecules

BIOC30030 Biochemists Toolkit

OR

XXXX (Option) e.g., BMOL30020, CHEM30360, MICR30090

XXXX (Option) e.g., BMOL30020, CHEM30360, MICR30090

DENISCO Wyeth



Huge Opportunities



















































































